## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant : Yasumi Sato et al

Title : PLASMA-ENHANCED PROCESSING APPARATUS

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Hon. Commissioner of Patents and Trademarks Washington, D. C. 20231

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## PRELIMINARY AMENDMENT

Sir:

Preliminary to examination, please amend the claims 3 and 7 as attached herewith.

## REMARKS

The preliminary amendment has been filed to change multiple dependency of claims 3 and 7 to single dependency.

Respectfully submitted,
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## What is claimed is:

- 1. A plasma-enhanced processing apparatus, comprising;
  - a process chamber in which a substrate is processed,
  - a pumping system that pumps said process chamber,
- a gas-introduction system that introduces process gas into said process chamber,
- a plasma-generation means that generates plasma in said process chamber by applying energy to said process gas,
- a substrate holder that holds said substrate in said process chamber,

wherein an opposite electrode facing to said substrate held by said substrate holder is provided, and the opposite electrode comprises a clamping mechanism that clamps the front board to support said front board.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

said opposite electrode comprises a main body, and a cooling mechanism that cools said front board via said main body.

3. (Amended) A plasma-enhanced processing apparatus as claimed in claim 1, wherein;

said clamping mechanism clamps the periphery of said front

board by a clamping plate in surface contact with said front board .

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

said front board has a step at said periphery that is sandwiched by said main board and said clamping plate, and said clamping plate is flush with said front board.

5. A plasma-enhanced processing apparatus as claimed in claim 1, comprising;

a protector covering a surface of said clamping mechanism, wherein said surface is not exposed to said plasma.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

said clamping mechanism clamps the periphery of said front board by a clamping plate in surface contact on said front board, and said protector is flush with said front board.

7. (Amended) A plasma-enhanced processing apparatus as claimed in claim 1, wherein;

said front board is made of silicon poly-crystal or silicon mono-crystal.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

said clamping plate is screwed on a member except said front board to press said front board onto said main body, and screwing torque is 1Nm or more.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

said clamping plate is screwed on a member except said front board to press said front board onto said main body, and screwing torque is 1Nm or more.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

a sheet made of carbon is inserted between said main body and said front board.

- 1. A plasma-enhanced processing apparatus, comprising;
  - a process chamber in which a substrate is processed,
  - a pumping system that pumps said process chamber,
- a gas-introduction system that introduces process gas into said process chamber,
- a plasma-generation means that generates plasma in said process chamber by applying energy to said process gas,
- a substrate holder that holds said substrate in said process chamber,

wherein an opposite electrode facing to said substrate held by said substrate holder is provided, and the opposite electrode comprises a clamping mechanism that clamps the front board to support said front board.

2. A plasma-enhanced processing apparatus as claimed in claim 1, wherein;

said opposite electrode comprises a main body, and a cooling mechanism that cools said front board via said main body.

3. A plasma-enhanced processing apparatus as claimed in claim 1 or 2, wherein;

said clamping mechanism clamps the periphery of said front

board by a clamping plate in surface contact with said front board .

4. A plasma-enhanced processing apparatus as claimed in claim 3, wherein;

said front board has a step at said periphery that is sandwiched by said main board and said clamping plate, and said clamping plate is flush with said front board.

5. A plasma-enhanced processing apparatus as claimed in claim 1, comprising;

a protector covering a surface of said clamping mechanism, wherein said surface is not exposed to said plasma.

6. A plasma-enhanced processing apparatus as claimed in claim 1, wherein;

said clamping mechanism clamps the periphery of said front board by a clamping plate in surface contact on said front board, and said protector is flush with said front board.

7. A plasma-enhanced processing apparatus as claimed in claim 1, 2, 3, 4, 5 or 6, wherein;

said front board is made of silicon poly-crystal or silicon mono-crystal.

8. A plasma-enhanced processing apparatus as claimed in claim 3, wherein;

said clamping plate is screwed on a member except said front board to press said front board onto said main body, and screwing torque is 1Nm or more.

9. A plasma-enhanced processing apparatus as claimed in claim 6, wherein;

said clamping plate is screwed on a member except said front board to press said front board onto said main body, and screwing torque is 1Nm or more.

A plasma-enhanced processing apparatus as claimed in claim
 , wherein;

a sheet made of carbon is inserted between said main body and said front board.